## **Project Description:**

The project analyzes Instagram user engagement and interaction data to provide actionable insights that guide business and product development strategies. Insights from this analysis will support various teams to make data-informed decisions for future enhancements.

### Approach:

The project is executed using SQL to sort and extract data using queries implemented to obtain the required insights.

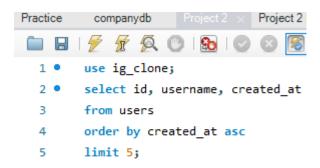
#### Tech-Stack used:

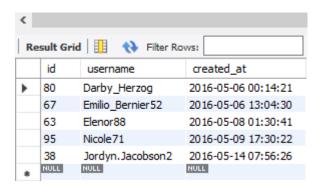
The tech stack used in this project included MySQL Workbench v8.0.30.0. It is a great tool for implementing queries, easy to access, and simple GUI.

# Insights:

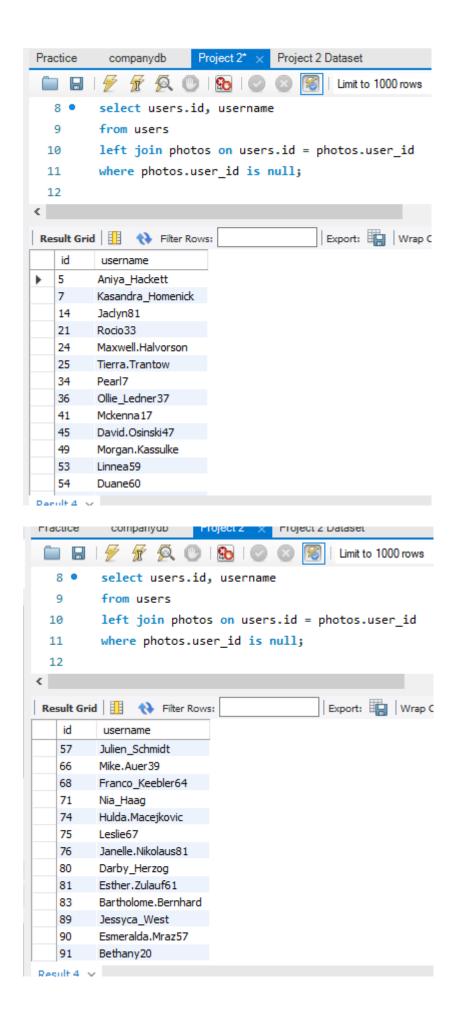
### A. Marketing Analysis:

1. Loyal User Reward: Identifying the five oldest users on Instagram from the provided database.

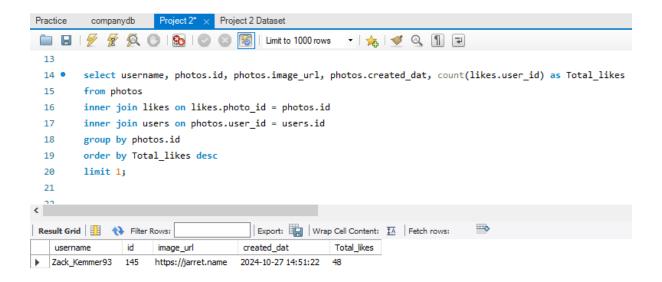




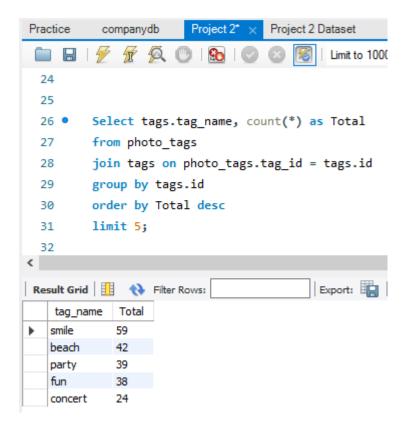
2. Inactive User Engagement: to identify users who have never posted a single photo on Instagram.



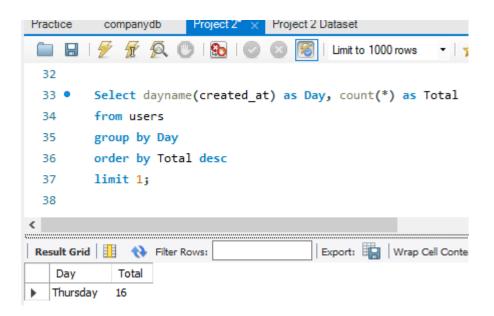
3. Contest Winner Declaration: to determine the winner of the contest and to provide their details to the team.



4. Hashtag Research: to identify and suggest the top five commonly used hashtags on the platform.



5. Ad Campaign Launch: to determine the day of the week when most users registered on Instagram.



#### B. Investor Metrics:

1. User Engagement: to calculate the average number of posts per user on Instagram and also to provide the total number of photos on Instagram divided by the total number of users.

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Project 2 V Project 2 Dataset

| Image: Select count (*) | Image: Sele
```

2. Bots and Fake Accounts: to identify users (potential bots) who have liked every single photo on the site, as this is not typically possible for a normal user.

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Practice companydb Project 2*
                                 Project 2 Dataset
                                            Limit to 1000 rows
  42
          select user_id, count(*) as Num_of_likes
  43 •
          from likes
  44
          group by user_id
  45
          having Num_of_likes = (select count(*) from photos);
  46
  47
          Select users.username, count(*) as Num_of_likes
  48
  49
          from users
          join likes on users.id = likes.user_id
  50
  51
          group by users.id
  52
          having Num_of_likes = (select count(*) from photos);
  53
<
 Result Grid
               Filter Rows:
                                            Export: Wrap Cell Conter
    username
                    Num of likes
   Aniya_Hackett
                    257
   Jadyn81
                    257
   Rocio33
                    257
   Maxwell.Halvorson
                    257
   Ollie_Ledner37
                    257
   Mckenna 17
                    257
   Duane60
                    257
Result 9 ×
                                         Limit to 1000 rows
 42
          select user_id, count(*) as Num_of_likes
 43 •
          from likes
 44
          group by user_id
 45
         having Num_of_likes = (select count(*) from photos);
 46
 47
 48 •
         Select users.username, count(*) as Num_of_likes
          from users
 49
         join likes on users.id = likes.user_id
  50
         group by users.id
  51
  52
         having Num_of_likes = (select count(*) from photos);
  53
<
Export: Wrap Cell Conter
    username
                    Num_of_likes
                   257
   Duane60
   Julien_Schmidt
                   257
   Mike. Auer 39
                   257
                   257
   Nia_Haag
   Leslie67
                   257
   Janelle.Nikolaus81
                   257
   Bethany20
                   257
```